

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Amend paragraph beginning on page 4, line 14 to read as follows:

In the present invention, the alloy prepared by a rapid solidification process is used as a starting material. This makes it possible to form an amorphous structure in the material without segregation. This starting material is oxidized to preferentially or selectively oxidize Zr which is one element of the Zr-Pd alloy, so that the element Pd in an amorphous state is aggregated to form ultrafine particles consisting of the Pd, the metal M and one or more compounds thereof and having a nanoparticle size of about 20 nm or less and clean hetero-phase boundaries without segregation, and the ultrafine particles are dispersed in the parent phase of $[[\text{ZnO}_2]] \text{ZrO}_2$. Thus, it is not desirable that the starting material exhibits crystallinity.

Please replace Table 1 on page 7 with amended Table 1 on the following page:

Table 1

	Composition of starting material (at. %)	Measurement temperature of hydrogen storage characteristics (°C)	Hydrogen storage amount of entire material (wt. %)	Pd weight - based hydrogen storage amount (wt. %)	Pd weight - based hydrogen desorption amount (wt. %)	Structure	Phase of starting material
Inventive Example 1	Zr ₆₅ Pd ₃₀ Ni ₅	150	0.71	2.30	1.21	Pd nanoparticles +ZrO ₂	amorphous
Inventive Example 2	Zr ₆₅ Pd ₃₀ Ni ₅	50	0.78	2.51	1.57	Pd-Ni alloy nanoparticles +ZrO ₂	amorphous
Comparative Example 1	Zr ₆₅ Pd ₃₅	150	0.71	2.19	0.54	Pd nanoparticles +ZrO ₂	amorphous
Comparative Example 2	Zr ₆₅ Pd ₃₅	50	0.84	2.58	1.33	Pd nanoparticles +ZrO ₂	amorphous
Comparative Example 3	Zr ₅₀ Pd ₅₀	150	0.45	0.95	0.32	Pd coarse particles +ZrO ₂	crystalline
Comparative Example 4	Zr ₅₀ Pd ₅₀	50	0.59	1.26	0.61	Pd coarse particles +ZrO ₂	crystalline
Comparative Example 5	Zr₇₀Pd₃₀ Zr ₇₀ Au ₃₀	150	0.44	0.09	0.09	Au nanoparticles +ZrO ₂	amorphous
Comparative Example 6	Pd (reported value)	150	0.65	0.65	0.65	Pd (polycrystalline structure of coarse particles)	crystalline
Comparative Example 7	Pd (reported value)	50	0.69	0.69	0.69	Pd (polycrystalline structure of coarse particles)	crystalline